

## **RUNTIME QUALITY VERIFICATION OF EXECUTION UNITS**

### **ABSTRACT OF THE DISCLOSURE**

5. One embodiment disclosed relates to a method of compiling a program to be executed on a target microprocessor with multiple execution units of a same type. The method includes selecting one of the execution units for testing and scheduling the parallel execution of program code and diagnostics code. The diagnostic code is scheduled to be executed on the selected
- 10 execution unit. The program code is scheduled to be executed on remaining execution units of the same type.